



Great Lakes Environmental™ — Model SRC

Slant-Rib Coalescing Oil/Water Separator

For minimum space and maximum separation efficiency



SRC250 mid-sized unit.



SRC15, small size with high efficiency.

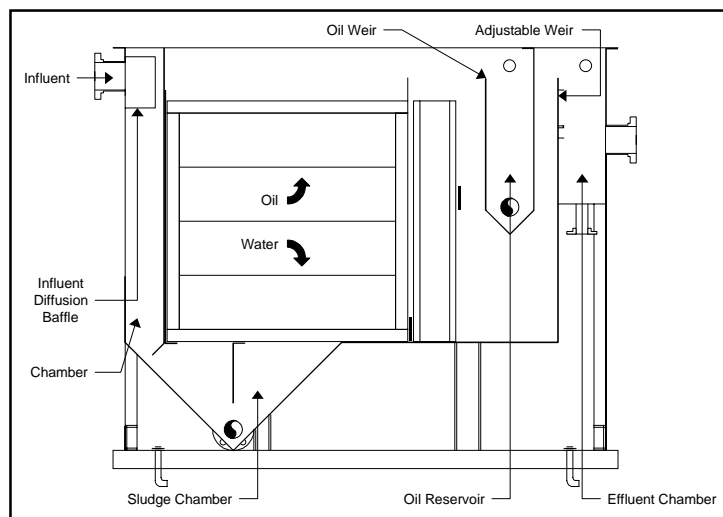
Since 1978, Great Lakes Environmental (GLE) has been a leader and innovator of industrial wastewater treatment equipment. Today, GLE provides industry's broadest line of oil/water separators for flows from 2 to 1,200 GPM in a single tank and various treatment options for higher flows.

The slant-rib coalescing design is the separator most often specified because of its compactness, reliability and throughput. The SRC removes free, non-emulsified oil and settleable solids to produce an effluent with 10 mg/l (maximum) of oil droplets 20 micron or larger.

The heart of the system is the separation chamber with an oleophilic slant-rib coalescing pack. Before the influent reaches the separation chamber, it is directed through a non-clogging diffuser that distributes flow evenly and allows large solids to drop out before they interfere with the processes within the media pack.

As the liquid travels through the slant-rib media pack, droplets adhere to the ribbed media pack and merge with other droplets creating larger oil droplets that break free and rise rapidly to the surface. The design of the media pack and the oil attracting characteristics of the PVC media ensure the highest degree of surface contact and coalescing efficiency.

The separated oil accumulates at the surface of the separation chamber where it displaces the water. As the oil layer



increases, oil spills over a weir into an oil reservoir and flows by gravity or is pumped to storage tanks.

Solids are also removed in the slant-rib media pack. The 55° inclination angle of the ribs is optimal for solids settling. As the solids slide from rib to rib, they gather mass and velocity until they drop off into the sludge chamber located directly beneath the separation chamber. The sides of the sludge chamber are sloped 45° to insure easy and complete sludge removal.

After the oil and solids have been removed, the water flows under an oil retention baffle and then over an adjustable weir into the clean water effluent chamber. The water is discharged by gravity through a single flanged connection.

GLE's Model SRC is highly efficient and, as a result, can handle twice the volume in 20% the length of comparably rated gravity separators. GLE sales engineers are experts in industrial wastewater treatment and have the products, options and knowledge to reduce your discharge problems.

Design Options:

- Coalescing media of polypropylene, PVC, CPVC and stainless steel
- Inlet feed pumps
- Dense coalescing pack
- Water pump-out system
- Recovered oil pump-out system
- Sludge pump-out system
- Heaters for freeze protection
- Inspection hatches
- Liquid level alarm signals
- Sludge augers

Applications:

- Industrial effluent treatment
- Oil and water reclamation
- Wash and rinse tanks
- Cooling towers
- Floor drains
- Sumps
- Groundwater

SRC Specifications

(Dimensions in inches)

Model Number	Length A	Width B	Height C
SRC15	97	38	49
SRC30	97	38	60
SRC50	109	38	73
SRC100	109	50	88
SRC150	114	78	88
SRC200	100	87	88
SRC250	109	102	89
SRC300	109	123	90
SRC400	172	87	86
SRC500	173	111	88
SRC600	172	123	86
SRC800	210	87	132
SRC1000	210	111	132
SRC1200	210	147	132

Dimensions are approximate, with flange to flange measurements. Treatment options for larger flows are also available. Please contact GLE representative for engineered drawings and options for larger flows.

Features:

- Compact, space-saving design uses ½ the volume and 1/5 the length of gravity separators.
- Efficient coalescing action removes smaller oil droplets.
- 55° inclination optimizes solids settling.
- Maximizes separation and removal of oil and solids.
- Energy efficient gravity separation operation.
- Special baffle system controls flow and minimizes surges for more reliable separation.
- Sloped sludge chamber for easy, complete sludge removal.
- Design flexibility – customized to site-specific requirements.

